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STUDENT GUIDE

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52D10 POWER GENERATION EQUIPMENT REPAIRER SKILL LEVEL I

PERFORM PREVENTIVE MAINTENANCE
CHECKS AND SERVICES GED GENERATOR SET



FOR U.S. ARMY RESERVE SCHOOLS



U S ARMY TRAINING SUPPORT CENTER
RESERVE SCHOOLS DIVISION
FORT EUSTIS VA 23604

PREPARED BY THE
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D103.6/5:



STUDENT DIRECTIONS

R E A D

This Student Guide will lead you through the "Perform Preventive Maintenance Checks and Services GED Generator Set" Lesson step by step. You will start with the directions below. Additional directions will be given to you during the presentation at the top and bottom of the pages in this Student Guide. It is important that you follow the directions exactly and complete each step before going on with the next step. If at any time the directions are not clear or you get lost, ask your instructor for help.

1. Read the Lesson Objective to find out what you are expected to learn. Do this now.
2. Read the Performance Test Directions and study the Performance Checklist. If you think you can pass this test ask the instructor to give you the test now.

LESSON OBJECTIVE

LESSON: Perform Preventive Maintenance Checks and Services on the Gasoline Driven Generator Set

CONDITIONS: Indoors or outdoors under daylight conditions.
Given a 10kw Gasoline Engine Driven Generator Set,
general mechanic's tool kit set, rags, oil can,
engine oil, suitable container, and DA Form 2404.

STANDARDS: The student will perform all before-, during-, and after-operations maintenance checks and services weekly, monthly and semiannually in accordance with the lesson presentation and the TM 38-750.

ENABLING OBJECTIVES

The student will be able to:

1. Performs before-operation checks. _____
2. Operates the engine under load. _____
3. Performs after-operation checks and services. _____
4. Inspects spark plugs for defects. _____
5. Inspects spark plug cables for defects. _____
6. Inspects contact assembly for defects. _____
7. Inspects crankcase breather for obstructions. _____
8. Inspects the generator set for defective components. _____

PMCS monthly:

9. Performs before-operation checks and services. _____
10. Operates the engine under load. _____
11. Performs after-operation checks and services. _____
12. Inspects carburetor and linkage for operation. _____
13. Inspects the governor and linkage for operation. _____
14. Inspects intake manifold for defects. _____
15. Inspects exhaust manifold for defects. _____

16. Inspects spark plugs for defects. _____
17. Inspects the contact assembly for defects. _____
18. Inspects the crankcase breather for obstructions. _____
19. PMCS semiannually:

NOTE: You are now ready to look at the lesson presentation. The videotape will tell you when to answer the Self-Check Questions. Don't forget to follow the directions at the top and bottom of each page in the Student Guide. Start the video-tape now.

PERFORMANCE TEST DIRECTIONS

LESSON: Perform Preventive Maintenance Checks and Services on Gasoline Engine Driven Generator Set

TEST DIRECTIONS:

1. At this site, you will find 10kw Gasoline Engine Driven Generator Set, General Mechanic's Tool Kit Set, rags, oil can, engine oil, suitable containers, and DA Form. All of this material may be used by you during your testing.

2. To be rated a "GO" on this test, you will be required to receive a "GO" on every step on the Performance Checklist.

3. On this test you must:

1. Performs before-operation checks. _____
2. Operates the engine under load. _____
3. Performs after-operation checks and services. _____
4. Inspects spark plugs for defects. _____
5. Inspects spark plug cables for defects. _____
6. Inspects contact assembly for defects. _____
7. Inspects crankcase breather. _____
8. Inspects the generator set for defective components. _____

PMCS monthly:

9. Performs before-operation checks and services. _____
10. Operates the engine under load. _____
11. Performs after-operation checks and services. _____
12. Inspects carburetor and linkage for operation. _____
13. Inspects the governor and linkage for operation. _____
14. Inspects intake manifold for defects. _____
15. Inspects exhaust manifold for defects. _____
16. Inspects spark plugs for defects. _____

17. Inspects the contact assembly for defects. _____

18. Inspects the crankcase breather for obstructions. _____

PMCS semiannually:

NOTE: Refers to substeps listed under PMCS monthly.

19. Make necessary entries on DA Form 2404.

20. If you have any questions concerning the test, ask the instructor now. You may not ask the instructor for any help while taking this test.

21. Specific Equipment:

General Mechanic's tool kit

Rags

Engine oil

Suitable containers

DA Form 2404

TM 5-2805-203-14

TM 5-6115-271-14

PERFORMANCE CHECKLIST

LESSON: Perform Preventive Maintenance Checks and Services on Gasoline Engine Driven Generator Set

STUDENT'S NAME: _____

TEST COMPLETION DATE: _____

For the student to receive a "GO" on this test, the student must receive "GOs" on all steps. If during the test the student misses or skips a step, notify or correct him immediately.

Did the Student:

	Test		Retest		Remark
	GO	NO GO	GO	NO GO	
1. Performs before-operation checks.					
2. Operates the engine under load.					
3. Performs after-operation checks and services.					
4. Inspects spark plugs for defects.					
5. Inspects spark plug cables for defects.					
6. Inspects contact assembly for defects.					
7. Inspects crankcase breather for obstructions.					
8. Inspects the generator set for defective components.					
PMCS monthly:					
9. Performs before-operation checks and services.					
10. Operates the engine under load.					

	Test		Retest		Remark
	GO	NO GO	GO	NO GO	
11. Performs after-operation checks and services.					
12. Inspects carburetor and linkage for operation.					
13. Inspects the governor and linkage for operation.					
14. Inspects intake manifold for defects.					
15. Inspects exhaust manifold for defects.					
16. Inspects spark plugs for defects.					
17. Inspects the contact assembly for defects.					
18. Inspects the crankcase breather for obstructions.					
PMCS semiannually:					
NOTE: Refers to substeps listed under PMCS monthly.					
19. Makes necessary entries on DA Form 2404.					

Evaluator's Signature: _____